

19980224.ba v01_n938.bam.980224 v01_n939.bam.980224

>From ???@??? Wed Feb 25 01:51:07 1998
Message-Id: <199802240851.CAA04313@sco.theporch.com>
Date: Tue, 24 Feb 1998 02:51:50 CST
Subject: BOATANCHORS digest 1938

BOATANCHORS Digest 1938

Topics covered in this issue include:

- 1) WTB: Collins 75A4
by Hal Waite <halwaite@sprintmail.com>
- 2) crystal conundrum
by Morris Odell <morriso@vifp.monash.edu.au>
- 3) xtal wanted
by BEN NOCK <G4BXD@compuserve.com>
- 4) Re: Old Scope Info WTD
by w7ni@teleport.com (Stan Griffiths)
- 5) Q 'n D Xtal test?
by "A. B. Bonds" <ab@vuse.vanderbilt.edu>
- 6) WTB RadioMarine P.S.
by ".larry" <rau@wco.com>
- 7) Re: xtal test circuit
by Bill Jarvis <B.H.Jarvis@hw.ac.uk>
- 8) Re: TESTING GAS TUBES
by "Arden Allen" <aallen@sirius.com>
- 9) Re: Bouncy Meter
by "Arden Allen" <aallen@sirius.com>
- 10) Re: xtal test circuit
by "Arden Allen" <aallen@sirius.com>
- 11) Re: Drake R-4C filters ??
by Dan Martin <dmartin@visuallink.com>
- 12) Heavenly Halo
by Spencer Petri <spetri@e-tex.com>
- 13) Re: TESTING GAS TUBES
by Sandy W5TVW <ebjr@worldnet.att.net>
- 14) "Johnson" production statistics
by Sandy W5TVW <ebjr@worldnet.att.net>
- 15) Re: Buying a \$66 Racal RA-17
by Paul Bernhardt <bern@ppdu.nrl.navy.mil>
- 16) Re: WTB W.S. 19 connectors
by Paul Bernhardt <bern@ppdu.nrl.navy.mil>
- 17) Chippewa a Real Boatanchor
by gpewitt@execpc.com
- 18) Re: "Johnson" production statistics
by Keith Heitzmann <kk5fe@communique.net>
- 19) Re: "Johnson" production statistics

by L & M <toneri@ils.net>
20) Texas Hamfest Inquiry
by hikrbikr@erols.com
21) Re: Heavenly Halo
by Bill Jarvis <B.H.Jarvis@hw.ac.uk>
22) Vintage Photos of Radio Installations - 1946
by Jerry Proc <jproc@idirect.com>
23) HELP: RACAL RA-78 set
by "JOSE V.GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>

Date: Mon, 23 Feb 1998 13:46:00 -0800
From: Hal Waite <halwaite@sprintmail.com>
Cc: Boatanchors <boatanchors@theporch.com>
Subject: WTB: Collins 75A4
Message-ID: <34F1EE18.300A@sprintmail.com>

I am looking for this item in either the Las Vegas or Southern California area so that I can check it out. No accessory filters needed; the SSB filter is sufficient but the unit must be in excellent shape without scratches. Later serial number preferred. Thanks.

Hal K3AB/7 Las Vegas

Date: Tue, 24 Feb 1998 09:06:04 +1100
From: Morris Odell <morriso@vifp.monash.edu.au>
To: boatanchors@sco.theporch.com
Subject: crystal conundrum
Message-ID: <34F1F2CC.94D@vifp.monash.edu.au>

Hi all,

I've been playing with a vintage crystal which was made by AWA about 50 years ago. It's a vacuum mounted 100 Kc plate (looks like a firebottle) and is in a very nice heavy machined metal oven with a thermostat (which also looks like a vacuum tube). It heats up nicely and regulates it's temperature with 12 volts to the oven terminals. The whole thing is in a largeish black wrinkle finished housing with a 7 pin tube base on the bottom. As crystals go, it's a real boatanchor.

You'd expect this thing to be pretty accurate since it is in an oven and was probably used as some sort of frequency standard. The problem is, it oscillates consistently low in frequency. I've tried it in Pierce and Colpitts oscillators (yes I know they're really the same) with as little as 47 pf in series with the crystal to minimise loading and I can't get

it above 99.970 Khz. I know this is within 0.03% of 100 Khz but I would have thought it would be better than that given the quality of construction.

Is this a crystal that has aged out of frequency, am I expecting too much or am I missing something? Any suggestions as to a different oscillator circuit to try?

73 de Morris VK3DOC

Date: Mon, 23 Feb 1998 17:27:39 -0500
From: BEN NOCK <G4BXD@compuserve.com>
To: Multiple recipients of 1 <boatanchors@sco.theporch.com>
Subject: xtal wanted
Message-ID: <199802231727_MC2-3468-F1B6@compuserve.com>

I am in need of the following HC6 xtals:

12.6, 21.1, 29.1 MHz.

cheers, Ben. G4BXD.

Date: Mon, 23 Feb 1998 14:31:37 -0800 (PST)
From: w7ni@teleport.com (Stan Griffiths)
To: RSOLOMON@systems.TEXTRON.COM
Cc: boatanchors@theporch.com
Subject: Re: Old Scope Info WTD
Message-ID: <199802232231.0AA04256@mail1.teleport.com>

> All this talk about TEK scopes has me waxing nostalgic and looking
> to work on my old 581 that has a few problems. Are there any texts
> on TEK repair, specifically the 581 series and the 81/82 plug-ins ?
> Info on the older plug-ins would also be useful.

> rsolomon@systems.textron.com
>
> 73, Dick, W1KSZ

Hi Dick,

The 581 is pretty much like the 530/540 series as far as circuitry goes. The exception is the vertical amplifier and the plug-ins. I don't know of any text specifically pointed toward repairing the 580 series.

One thing you can do is fire it up and describe the symptoms here. You will get some very good responses. I can tell you right up front that the place to start is the power supplies. They must be working correctly or NOTHING else will work correctly. You will need a manual if you don't already own one. The manual will guide you on how to check out a working instrument. The general procedure is to follow the manual until it gives you instructions you can't follow since the instrument is performing wrong. If you need help at that point, tell us where in the procedure you went aground and we can advise where to look for the problem. The guys on this list have fixed lots of Tek scopes in just this way, via email.

One thing that is always helpful when asking for advice on fixing a Tek scope is to make sure you have completely identified it with the correct model number (is it a 581 and NOT a 581A?) and serial number. Do this for the plugins as well. Tektronix continuously modified and improved the circuitry in their scopes throughout the total time they were marketed. Sometimes a problem you will see was corrected by a later circuit modification and that information will be in the microfiche modification summary (which I have for the 581 and 581A as well as the plugins 81, 81A, 84, and 86). I will be happy to look in the microfiche mod summary for you if it will help.

Assuming you have a 581, there were several MAJOR modifications made to it during its lifespan that will not be practical to install in an early instrument. Tek made modification kits for several of these and installing one of these kits was much like building a Heathkit with step-by-step instructions. (Tektronix used to PAY me for installing these kits as part of my job as a Tektronix Field Maintenance Engineer. Great fun job!!) Part of helping you to troubleshoot your instrument will be determining which, if any, of these kits have been installed in your instrument. Only when we know if any of these kits have been installed, will we know what all of the circuits in your instrument should do.

Enough for now. Let us know what sort of problems you think you have with it. Also, there seems to be enough interest in this sort of discussion right here on the BA list that maybe we should keep it public, at least until Jack says to take it private.

Stan w7ni@teleport.com

Date: 23 Feb 1998 16:35:13 -0600
From: "A. B. Bonds" <ab@vuse.vanderbilt.edu>
To: boatanchors@sco.theporch.com
Subject: Q 'n D Xtal test?
Message-ID: <1998Feb23.163517-0600@spike.vuse.vanderbilt.edu>

This question reveals ignorance on my part (come to think of it, what question doesn't?) but I'd like to know if there is a Quick and Dirty test to find a crystal frequency. I've got an old Bliley rock in a bakelite pillbox with no marking on the top. Pretty good size, could be a filter xtal (455 kHz I hope I hope), but can't tell just by looking at it. Is there a reasonable test that can be done with a signal generator to find out about where it resonates, without having to cobble up an oscillator circuit?

A. B. Bonds

Date: Mon, 23 Feb 1998 14:47:43 -0800
From: ".larry" <rau@wco.com>
To: "boatanchors" <boatanchors@theporch.com>
Subject: WTB RadioMarine P.S.
Message-ID: <199802232251.0AA26775@shell.wco.com>

Got a call from a friend who has 2 Radio Marine 8510 liberty ship receivers...but no power supplies.

he is looking for RM-23 or RM 37 POWER SUPPLIES

Please contact Directly :

Mike Tara ph 209-931-6059

4657 East View Drive

Stockton, Ca. 95212

dont call me i dont know anything about these.. just helping out a friend..

larry w6wuh

Date: Mon, 23 Feb 1998 23:18:15 +2400
From: Bill Jarvis <B.H.Jarvis@hw.ac.uk>
To: ab <ab@vuse.vanderbilt.edu>
Cc: boatanchors <boatanchors@theporch.com>

Subject: Re: xtal test circuit

Message-ID: <199802232318.XAA21376@punt1.hw.ac.uk>

On 1998-02-23 ab@vuse.vanderbilt.edu said:

ab>This question reveals ignorance on my part (come to think of it,
ab>what question doesn't?) but I'd like to know if there is a Quick
ab>and Dirty test to find a crystal frequency. I've got an old Bliley
ab>rock in a bakelite pillbox with no marking on the top. Pretty good
ab>size, could be a filter xtal (455 kHz I hope I hope), but can't
ab>tell just by looking at it. Is there a reasonable test that can be
ab>done with a signal generator to find out about where it resonates,
ab>without having to cobble up an oscillator circuit?
ab>A. B. Bonds

I'd say "No" to that; but (wash my mouth out) many cheap 4-gate ICs make
extremely cheap, easy crystal oscillators needing no tuning. You wire 3
gates in an endless ring and put the unknown crystal across ONE of them
(come to think of it, that's the same as putting it across the other
two!)

In my humble experience, it nearly always oscillates. No Ls, Cs or Rs
needed.

May I be forgiven.

Bill

GM8APX, qthr=No 6, EH4 6JY==No Rectangulars=Cave Felem==Ikke Hawkering

Cantabit vacuus coram latrone viator

Net-Tamer V 1.10 - Registered

Date: Mon, 23 Feb 1998 16:01:48 -0800

From: "Arden Allen" <aallen@sirius.com>

To: "Old Tube Radios" <boatanchors@theporch.com>, <B.H.Jarvis@hw.ac.uk>

Subject: Re: TESTING GAS TUBES

Message-ID: <199802240011.QAA19676@calimetrics.com>

Bill;

> There must be an obvious answer; but it's not obvious to ME!

It's not obvious to me either. I don't know what my TV-7 is supposed to be

telling me other than "it glows". So if I really want to know how well a gas regulator regulates I set up my lab 0-400V lab supply with a series resistor which gives me about 0-30 mA for about 0-100 volts change ($\Delta 100V$ divided by $\Delta .03A = 3333 \text{ ohms}$). So a 3K 5W resistor will do the job. Monitor the tube's voltage drop. A good tube regulates very tightly (<1%) from ~5 to ~30 mA. I have a REAL hi-tek setup for this; a socket with a resistor soldered to it! IT'S NOT THE SAFE WAY TO DO IT SO BE CAREFUL!!! Better to build a little test box if you have lots to do.

Give your loved ones Gummy Bears
Arden Allen KB6NAX aallen@sirius.com

Date: Mon, 23 Feb 1998 16:09:30 -0800
From: "Arden Allen" <aallen@sirius.com>
To: "Old Tube Radios" <boatanchors@theporch.com>
Subject: Re: Bouncy Meter
Message-ID: <199802240019.QAA19792@calimetrics.com>

Meter movement damping is mostly a function of the design. A shorted turn armature of proper design gives proper damping. External remedies are like chicken noodle soup for terminal cancer (nice thought).

Give your loved ones Gummy Bears
Arden Allen KB6NAX aallen@sirius.com

Date: Mon, 23 Feb 1998 16:30:58 -0800
From: "Arden Allen" <aallen@sirius.com>
To: "Old Tube Radios" <boatanchors@theporch.com>, <B.H.Jarvis@hw.ac.uk>
Subject: Re: xtal test circuit
Message-ID: <199802240040.QAA20067@calimetrics.com>

Hi again Bill;

>but I'd like to know if there is a Quick
and Dirty test to find a crystal frequency.....

How dirty do you want to get (careful, this a family list)? A transistor (did I say that?) colpits osc is simple and reliable. No dangerous voltages either. Next best is a parallel (anti resonant) mode metal gate CMOS (CD4011 for example) ic osc. works well up to 5 MHz. A silicon gate (high speed CMOS) ic (74HC04) will get you up to 30 MHz ok. A TTL two gate oscillator runs series (resonant) mode up to 30 MHz but can be tricky with

some xtals and oscillate at a harmonic. You could torture yourself and use an impedance bridge. I leave that to x-spurtz.

Give your loved ones Gummy Bears
Arden Allen KB6NAX aallen@sirius.com

Date: Mon, 23 Feb 1998 20:02:54 -0500
From: Dan Martin <dmartin@visuallink.com>
To: G4BXD@compuserve.com
Cc: boatanchors@theporch.com
Subject: Re: Drake R-4C filters ??
Message-ID: <34F21C3E.72DD@visuallink.com>

BEN NOCK wrote:

>
> Anyone know of a supply of AM and CW filters for the Drake R-4C ?
> and what sort of cost these go for.
>
> Cheers, Ben G4BXD

Ben:

If you're thinking of new filters, Sherwood Engineering (www.sherweng.com) has a narrow first i.f. filter, a 6 pole 600 Hz jobbie with seemingly excellent specs. Sherwood also still offers a variety of other trick add-ons for the 4C. Check their website. International Radio advertises both 1st and 2nd i.f. filters at various bandwidths. Their GUF-1 1st i.f. filter has enjoyed a good reputation with the Drake crowd. I don't recall their URL but their phone is 541-459-5623. None of these are at all cheap and are in the \$100 to \$115 range, or so.

Good luck and caveat emptor.

73
Dan
WB4GRA
Winchester, VA

Date: Mon, 23 Feb 1998 19:07:48 -0600 (CST)
From: Spencer Petri <spetri@e-tex.com>

To: boatanchors@theporch.com
Subject: Heavenly Halo
Message-ID: <199802240107.TAA28447@sco.theporch.com>

Greetings,

In the good old AM days I ran a Hygain halo on six meters. Still have it, except the insulators are broken. Tuned easily. It had two hoops, direct coax feed with a hairpin stub and adjustable rods along the inside support. Check out their ads in the late 60s.
Anybody here got any influence with Hygain? Sure would like a new one!!

73 de Pete WA5JCI EM21 "the future will be better tomorrow"

.....
6 Mtr -- WAS #490, WAC CW, DXCC/91 Countries, VUCC #361/626 Grids
.....
2 Mtr -- 36 States -- VUCC #346/183 Grids

Date: Tue, 24 Feb 1998 01:23:24 +0000
From: Sandy W5TVW <ebjr@worldnet.att.net>
To: B.H.Jarvis@hw.ac.uk, boatanchors@theporch.com
Subject: Re: TESTING GAS TUBES
Message-ID: <19980224012322.AAA26681@LOCALNAME>

At 07:54 PM 2/23/98 +2400, you wrote:

>I'm getting very strange results trying to test gas-filled voltage
>regulators.

>There must be an obvious answer; but it's not obvious to ME!

>

>(It's a very old AVO valve tester; this is the only freakish thing it
>does to my knowledge.)

Never had *any* dealings with an AVO valve tester! Have had *plenty* with the old model 8 multimeters!

The *ONLY* thing I have ever found that will reliably test a glow discharge voltage regulator tube (stabiliser valve) is the Hickok model 539 tube tester. I think the ex-GI model TV-2 will do it too. Anyway, the 539 displays the voltage across the tube on one meter, whilst indicating operating current on another meter. Thus the current can be varied over the specified range

(say 5-30 ma for say an 0A2) while watching the variation in the voltage across the tube. Just a test that makes the tube "glow" is no test at all.

One can rig up a jig to do the tests with a variable voltage power supply, two meters and a current limiting resistor, and test them quite well.

73,

E. V. Sandy Blaize, W5TVW

"Boat Anchors collected, restored, repaired, traded and used!"

417 Ridgewood Drive

Metairie, LA., 70001

860 Hartley 'ECO' construction "on hold"**

*** Looking for a TRC-10 transceiver *****

*** Looking for an RAL receiver *****

Date: Tue, 24 Feb 1998 01:23:30 +0000

From: Sandy W5TVW <ebjr@worldnet.att.net>

To: BASWAPLIST@FOOTHILL.NET, boatanchors@theporch.com,
glowbugs@piobaire.mines.uidaho.edu

Subject: "Johnson" production statistics

Message-ID: <19980224012322.AAC26681@LOCALNAME>

Is there anyone here who has the production statistics (model, years made, production quantities, etc.) for the E.F. Johnson transmitter line?

Someone had this but I never found out who.

73,

E. V. Sandy Blaize, W5TVW

"Boat Anchors collected, restored, repaired, traded and used!"

417 Ridgewood Drive

Metairie, LA., 70001

860 Hartley 'ECO' construction "on hold"**

*** Looking for a TRC-10 transceiver *****

*** Looking for an RAL receiver *****

Date: Mon, 23 Feb 1998 20:42:21 -0500 (EST)

From: Paul Bernhardt <bern@ppdu.nrl.navy.mil>

To: "JOSE V. GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>

Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Buying a \$66 Racal RA-17
Message-ID: <Pine.A32.3.91.980223203858.43318B-1000000@ppdu.nrl.navy.mil>

Jose,

Tubes for the RACAL RA-17 can be obtained in a package deal from:
Colomar Electronics Ltd.
170 GoldHawk Road
London, W12 8HJ
England
Phone: +44 181 743 0899
FAX: +44 181 749 3934

New Set Valves RA17 29.40 pounds each
New Set Valves RA17L 31.75 pounds each

They also have a complete set of spare parts such as knobs, panels,
covers, output transformers, etc.

Sincerely, Paul Bernhardt

Work: P.A. Bernhardt	Home: Paul Bernhardt, KF4FOR
Code 6794	5704 Ridge View Dr.
Naval Research Laboratory	Alexandria, VA 22310
Washington, DC 20375	
Tel: 202-767-0196	703-960-9656
FAX: 202-767-0631	

On Sat, 21 Feb 1998, JOSE V. GAVILA (EB5AGV/EC5AAU) wrote:

> Hi gang,
>
> Some of you will probably remember my comments, some time ago, about a
> 'free for postage' Racal RA-17, located in UK. Well, I didn't get it :-(!.
> But now, I have been offered a \$66 unit (also in UK), WITHOUT tubes but
> complete otherwise. So the question is: it is an untubed RA-17 worth \$66?.
> Which tubes the english version uses?. How difficult are these tubes to find?.
>
> And the \$1M question: How good receiver the RA-17 is, comparing to our old
> known R-390(A), R-388, SP-600, ...?.
>
> Thanks for all your help!.
>
> Best regards.
>
> JOSE
> -----
> 73 EB5AGV / EC5AAU

> JOSE V. GAVILA
> Ausias March 46, 15
> 46910 Benetusser - VALENCIA
> SPAIN
>
> <http://www.geocities.com/SiliconValley/6992/>
> e-mail: eb5agv@ctv.es & eb5agv@amsat.org
>

Date: Mon, 23 Feb 1998 20:49:41 -0500 (EST)
From: Paul Bernhardt <bern@ppdu.nrl.navy.mil>
To: Ragnar Otterstad <otterstad@inet.uni2.dk>
Cc: boatanchors <boatanchors@theporch.com>
Subject: Re: WTB W.S. 19 connectors
Message-ID: <Pine.A32.3.91.980223204301.43318C-100000@ppdu.nrl.navy.mil>

Rag,

For WS #19 parts try:
Colomar Electronics Ltd.
170 Goldhawk Road
London W12 8HJ
Phone: +44 181 743 0899
FAX: +44 181 749 3934

For the WS 19 they have:

Long lead, 6 way	15 pounds
lead cable short multi-pin	15 pounds
Set for spares	25 pounds
Front panel	10 pounds
PS cable	10 pounds
meters	10 pounds
junction box #2 mk2	15 pounds
2 pin plug	2.5 pounds
aerial base	2.5 pounds
other items	

I recommend that you call John (the owner) a +44 1403-782275 between 8 and 10 pm (London time) for further information.

Sincerely, Paul Bernhardt

Work: P.A. Bernhardt
Code 6794
Naval Research Laboratory
Washington, DC 20375

Home: Paul Bernhardt, KF4FOR
5704 Ridge View Dr.
Alexandria, VA 22310

Tel: 202-767-0196
FAX: 202-767-0631

703-960-9656

On Fri, 20 Feb 1998, Ragnar Otterstad wrote:

>
> > Colomar, Ltd in London England had some 2 months ago. They do mail
> order.

> >

>

> Do you have more specific adress/phone/fax/email ??

>

>

> Thanks Rag OZ8RO

>

>

>

>

> > Work:P.A. Bernhardt Home: Paul Bernhardt, KF4FOR

> > Code 6794 5704 Ridge View Dr.

> > Naval Research Laboratory Alexandria, VA 22310

> > Washington, DC 20375

> > Tel: 202-767-0196 703-960-9656

> > FAX: 202-767-0631

> >

> > On Wed, 18 Feb 1998, John J Mccarty wrote:

> >

> > >

> > >

> > > Greetings;

> > >

> > > Does anyone have any W.S.19 connectors (12 PT or dog-bone)
> > > that they would not mind parting with????

> > >

> > >

> > > Tnx + 73

> > >

> > >

> > > John McCarty

> > > n9hrt

> > > jmccarty@lucent.com

> > >

> > >

> > >

>

Date: Mon, 23 Feb 98 21:23:36 PST
From: gpewitt@execpc.com
To: boatanchors@listserv.tempe.gov, boatanchors@theporch.com,
HEATH@listserv.tempe.gov, HEATH@QTH.NET
Subject: Chippewa a Real Boatanchor
Message-ID: <Chameleon.980223214310.gpewitt@execpc.com>

Well I made the trip and picked up my \$300.00 Chippewa.
If you ever wondered how far it is around lake Michigan
it's 940 miles and 16 hours on the road. I'm getting too old for this.
The chippy has been heavily modified but no exterior damage
at all. It still has the 2 4-400A's and I got another pair of NOS finals with it.
It has been converted to grounded grid by the first owner. I'm number 3. The
second owner completely re-wired the power supply and fixed
the bad wiring job. It has replacement meters which are
probably much better quality than the originals from
Heath but they are hermetically sealed and I can't make
new faces for them. The 866's have been replaced with
two "tubsters" marked 1N2637 10400piv SEMICON.
Hope they never go out 'cause I doubt I'll ever find any
more. I'll have to look it over really carefully and
decide what I want to do with it. I am in the market for
some original meters and I'm sure I'll need some other parts. I'd like to find
all the Heath mods and any
articles about fixing one up. I am going to get the
ER magazines with the chippy write up.
Why did so many people do the grounded grid mod? I guess
it's not so bad since Heath made the Warrior grounded grid.
So, as always, I would be grateful for information, suggestions, advice, war
stories, parts, etc..

Thanks and 73 Gary

Name: Gary Pewitt N9ZSV/KT
6120 W. Calumet Rd. Apt 204
Milwaukee, WI 53223
414 355 8147 Home 414 297 4307 Work
E-mail: gpewitt@execpc.com
Date: 02/23/98
Time: 21:23:36

Date: Mon, 23 Feb 1998 22:18:06 -0600

From: Keith Heitzmann <kk5fe@communique.net>
To: boatanchors@theporch.com
Subject: Re: "Johnson" production statistics
Message-ID: <3.0.3.32.19980223221806.006a1b00@mail.communique.net>

At 01:23 AM 2/24/98 +0000, Sandy, W5TVW wrote:

> Is there anyone here who has the production statistics (model, years
>made,
>production quantities, etc.) for the E.F. Johnson transmitter line?
> Someone had this but I never found out who.

Hi Everyone,

If anyone is interested I have a WordPerfect file of this info I scanned.
If anyone wants it, email me direct and I will send it out. At this time I
cant make it into a text file, but can put it into other graphic formats
(ie: jpg, gif, etc...)

Take care,

Keith KK5FE

--- AMI# 837 ---
----- Visit my Vintage Radio Web Site -----
----- <http://www.communique.net/~kk5fe> -----
Collector of tube radio's and vintage fishing equipment

Date: Mon, 23 Feb 1998 23:47:21 -0500 (GMT-0500)
From: L & M <toneri@ils.net>
To: ebjr@worldnet.att.net
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: "Johnson" production statistics
Message-ID: <199802240447.XAA27610@server1.ils.net>

At 01:23 AM 2/24/98 +0000, Sandy W5TVW wrote:

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>made,
>production quantities, etc.) for the E.F. Johnson transmitter line?
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>73,
>E. V. Sandy Blaize, W5TVW
>"Boat Anchors collected, restored, repaired, traded and used!"

>417 Ridgewood Drive
>Metairie, LA., 70001

>
>**860 Hartley 'ECO' construction "on hold"****
>*** Looking for a TRC-10 transceiver *****
>*** Looking for an RAL receiver *****
>

I know it's not real neat looking but here are the figures you wanted.
E.F. Johnson Transmitter sales figures compiled from information by KB9IV.

Viking I :	1949 - 156	Ranger:	1954 - 2800
	1950 - 547		1955 - 2301
	1951 - 1436		1956 - 1070
	1952 - 1244		1957 - 1035
			1958 - 876
Viking II :	1952 - 1900		1959 - 671
	1953 - 4156		1960 - 552
	1954 - 2100		1961 - 748
	1955 - 997		1962 - 750
	1956 - 500		1963 - 372
	1957 - 218		1964 - 156
	1958 - 72		1965 - 98
	1959 - 71		1966 - 52
	1960 - 56		
	1961 - 48	Adventurer:	1954 - 935
			1955 - 1969
Mobile:	1953 - 817		1956 - 1042
	1954 - 228		1957 - 647
	1955 - 250		1958 - 550
	1956 - 192		1959 - 281
	1957 - 127		1960 - 278
	1958 - 78		1961 - 212
	1959 - 52		1962 - 164
	1960 - 73		1963 - 51
	1961 - 20		1964 - 13
Desk Kilowatt:	1955 - 258	6N2:	1957 - 587
	1956 - 92		1958 - 285
	1957 - 52		1959 - 189
			1960 - 241
Pacemaker:	1956 - 501		1961 - 262
	1957 - 404		1962 - 305
	1958 - 217		1963 - 154
	1959 - 114		1964 - 82
			1965 - 37
Valiant:	1956 - 1175		1966 - 18
	1957 - 1518		
	1958 - 206	Five Hundred:	1957 - 452

1959 - 1259	1958 - 134
1960 - 1003	1959 - 126
1961 - 816	1960 - 78
1962 - 634	1961 - 43
1963 - 292	1962 - 24
1964 - 165	1963 - 5
1965 - 75	1964 - 3
1966 - 35	

Navigator: 1957 - 356	Thunderbolt: 1958 - 346
1958 - 214	1959 - 237
1959 - 130	1960 - 103
1960 - 67	1961 - 90
1961 - 73	1962 - 48
	1963 - 60

Courier: 1957 - 39	1964 - 13
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1958 - 185	
1959 - 108	6N2 Thunderbolt: 1959 - 64
1960 - 94	1960 - 45
1961 - 39	1961 - 51
	1962 - 44

Challenger: 1958 - 653	1963 - 52
1959 - 1085	1964 - 29
1960 - 554	

1961 - 437	Invader: 1960 - 215
1962 - 458	1961 - 363
1963 - 355	1962 - 221
1964 - 154	1963 - 88
1965 - 86	1964 - 36
1966 - 54	

Invader 2000: 1960 - 79

10M Messenger: 1960 - 166	1961 - 175
1961 - 123	1962 - 78
1962 - 119	1963 - 34
1963 - 85	1964 - 20
1964 - 44	
1965 - 32	
1966 - 16	

73...Mike VE3FGU

Mike & Lynda Toneri E-mail: toneri@ils.net

Keswick, Ontario

WEBPAGE: <http://www.geocities.com/heartland/meadows/8218>

Date: Tue, 24 Feb 1998 00:01:01 +0000
From: hikrbikr@erols.com
To: Boatanchors <boatanchors@theporch.com>
Subject: Texas Hamfest Inquiry
Message-ID: <34F20DBD.1A8B@erols.com>

Texans! Will there be any hamfests in the Austin-San Antonio-Hill Country area on the weekend of 14-15 March? I'll be visiting in New Braunfels for a few days.

BTW... Thanks to all who came to the Vienna Winterfest this past Sunday.

73, Mike Steussy AE4R
Vienna, VA

Date: Tue, 24 Feb 1998 05:24:38 +2400
From: Bill Jarvis <B.H.Jarvis@hw.ac.uk>
To: spetri <spetri@e-tex.com>
Cc: boatanchors <boatanchors@theporch.com>
Subject: Re: Heavenly Halo
Message-ID: <199802240524.FAA21781@punt1.hw.ac.uk>

On 1998-02-24 spetri@e-tex.com said:

sp>Greetings,
sp>In the good old AM days I ran a Hygain halo on six meters. Still
sp>have it, except the insulators are broken. Tuned easily. It had two
sp>hoops, direct coax feed with a hairpin stub and adjustable rods
sp>along the inside support. Check out their ads in the late 60s.
sp>Anybody here got any influence with Hygain? Sure would like a new
sp>one!! 73 de Pete WA5JCI EM21 "the future will be better tomorrow"
sp>.....
sp>6 Mtr -- WAS #490, WAC CW, DXCC/91 Countries, VUCC #361/626 Grids
sp>.....
sp>2 Mtr -- 36 States -- VUCC #346/183 Grids

What you describe sounds very similar to the "halo" sold years ago by J-Beam of Northampton. Haven't seen one for yonks but I assume that's because everyone else is using vertical polarisation on 2 metres nowadays. Or kids were using them to play basketball.

Seriously, they may still be available - seems likely. Try a search on J-Beam? If you like I'll sniff round for you and report; but not for a

few hours - typing keeps her awake.

Bill

GM8APX, qthr=No 6, EH4 6JY==No Rectangulars=Cave Felem==Ikke Hawkering

Naturam expellas furca, tamen usque recurret

Net-Tamer V 1.10 - Registered

Date: Tue, 24 Feb 1998 00:27:25 -0500

From: Jerry Proc <jproc@idirect.com>

To: boatanchors@theporch.com

Cc: hnmchin@planeteeer.com, afzm@cencol.on.ca

Subject: Vintage Photos of Radio Installations - 1946

Message-ID: <34F25A3D.6CD9@idirect.com>

Dear BA'ers,

Last week, I received 23 very rare photographs of radio and radar installations taken aboard HMCS HAIDA on February 26, 1946 by the RCN. In order to display these in a public area, I've created a temporary Web page photo album which will stay live until March 31/98. Sometime after that, I will disperse the photos within my two, on-line research papers. To view the collection:

<http://webhome.idirect.com/~jproc/1946>

The following North American BA's can be seen.

Where	Type
AIC Office	DAS Loran 'A' receiver
'Y' Office	Hallicrafters S-27 receiver
Main W/T Office	VHF installation - two TBS and one SCR 522

The rest of the radios and all of the radar gear is of British origin.

--

Regards,

Jerry Proc VE3FAB jproc@idirect.com

Web: www3.sympatico.ca/hrc/haida

HMCS HAIDA Naval Museum, Toronto Ontario

Date: Tue, 24 Feb 1998 09:50:43 +0100
From: "JOSE V.GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>
To: "Boatanchors List" <boatanchors@sco.theporch.com>
Subject: HELP: RACAL RA-78 set
Message-ID: <3.0.1.32.19980224095043.006facd4@192.168.0.1>

Hi gang,

After the cheap RA-17 offering (thanks to all of you. I got a very nice feedback!), yesterday I received another offer of Racal gear, described by the seller as:

"RA78 freq. measuring rx (RA-17L, SA-77 comparator, RA-98A,ISB, RA-63H,SSB)"

This is the only info I had at the moment. Looking at the racal.gear file, available in the BA server (nice work, Terry O'Laughlin, WB9GVB!), I have got this additional info:

RA-78G or H	RA-17 w/ SA-535C digital freq display, SA-77 freq comparator, huge and heavy
RA-78J or K	as above w/ RA-137 LF conv.
RA-63G	SSB adapter for RA-17, 100kHz IF input, British "valves", rack mount 3-1/2"h
RA-63H	as above, except w/ American tubes
RA-98	ISB adapter for RA-17, 100kHz IF input, discriminator tuning meter, rack mount 5-1/4"high

It looks like an impressive set!. I have not yet the asked price for these ones, though. I wonder if any of you have experience with this or similar arrangements, and the use of this kind of sets as 'frequency measuring receiver'. Any idea?.

I think the Racal bug has bitten me :-)!

Thanks and best regards.

JOSE

73 EB5AGV / EC5AAU
JOSE V. GAVILA

Ausias March 46, 15
46910 Benetusser - VALENCIA
SPAIN

<http://www.geocities.com/SiliconValley/6992/>
e-mail: eb5agv@ctv.es & eb5agv@amsat.org

End of BOATANCHORS Digest 1938

>From ???@??? Wed Feb 25 01:52:44 1998
Message-Id: <199802250232.UAA03490@sco.theporch.com>
Date: Tue, 24 Feb 1998 20:32:31 CST
Subject: BOATANCHORS digest 1939

BOATANCHORS Digest 1939

Topics covered in this issue include:

- 1) Fungicied removal
by JONWEINER@aol.com
- 2) Re crystal test
by philip mccooy <dgnova@erols.com>
- 3) Give away - old magazines
by "Ragnar Otterstad" <otterstad@inet.uni2.dk>
- 4) NEED: Johnson Invader Meter
by cormac@quicktel.com (Cormac Thompson)
- 5) Need 2-01C or EA53 tube
by "Owens, Clarence" <owensc@nebeng.otis.com>
- 6) BA Haunts in San Jose??
by Al Klase <skywaves@bw.webex.net>
- 7) Thanks for help with Collins filter
by "Sindre Torp" <sindtorp@online.no>
- 8) Reflex Receiver Data
by Jim Hill <jshillw6ivw@earthlink.net>
- 9) Drake R4C filters
by BEN NOCK <G4BXD@compuserve.com>
- 10) AR88 mobile !! psu
by BEN NOCK <G4BXD@compuserve.com>
- 11) KC Swap Meet Alert
by ARONGV@aol.com
- 12) WTD: TEK 454A Manual
by RSOLOMON@systems.TEXTRON.COM
- 13) Need some National stuff
by "Lawrence R. Ware" <lrware@pipeline.com>
- 14) BOUNCEY DRAKE METERS

- by JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
- 15) WTB: canvas accessory bag for PRC-41
by David Ross <ross@hypertools.com>
 - 16) Re: HELP: RACAL RA-78 set
by Dick Dillman <ddillman@igc.apc.org>
 - 17) Philips radios service info
by "Jack C. Shutt" <n9gt@fortwayne.infi.net>
 - 18) NEED METERS
by "Jack C. Shutt" <n9gt@fortwayne.infi.net>
 - 19) RA-17, etc.
by Ken Gordon <keng@uidaho.edu>
 - 20) Looking for Collins Equip. taken from Home
by "H. David Meitzen" <dmeitzen@kwom.com>
 - 21) Racal RA-17 & RA-78
by "JOSE V. GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>
 - 22) Re: Looking for Collins Equip. taken from Home
by jackiv@juno.com (John M Iverson)
 - 23) Re: RA-17, etc.
by "JOSE V. GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>
 - 24) Sweep Tube Cross Reference
by Dexter Francis <cwest@xmission.com>
 - 25) Re: Drake R4C filters
by Stanley Wilson <microres@crl.com>
 - 26) Philips radio service- How I met my wife.
by Richard Post <post@ouvaxa.cats.ohiou.edu>
 - 27) Chasing noise-R390A--a question
by dave metz <metzd@cfw.com>
 - 28) Re: Philips radios service info
by Bill Jarvis <B.H.Jarvis@hw.ac.uk>
 - 29) BA Alignment Instructions
by "Allan D. Fritsche" <fritsche@email.msn.com>
 - 30) re: Military Crystal Set
by anthony@pacbell.net

Date: Tue, 24 Feb 1998 07:05:53 EST
From: JONWEINER@aol.com
To: boatanchors@theporch.com
Subject: Fungicied removal
Message-ID: <7568ad27.34f2b7a3@aol.com>

Any suggestions on what dissolves the yellow material sprayed so liberally on the undersides of old military gear? Trying to solder/unsolder to it is very difficult.

Jon, K1VVC

Date: Tue, 24 Feb 98 07:16:26 -0800
From: philip mccooy <dgnova@erols.com>
To: boatanchors@sco.theporch.com
Subject: Re crystal test
Message-ID: <199802241222.HAA26186@smtp3.erols.com>

To rough test crystals:

- 1) connect 1 terminal of crystal to ground
- 2) connect signal generator to resistor, maybe 100k, then connect to resistor to crystal.

- 3) connect o'scope to crystal, through probe, if you have one.

- 4) tuning sig gen through crystal frequency will give peaked response in o'scope

You have to tune sig gen very carefully, because response peak is very sharp

This has worked for me.

Date: Tue, 24 Feb 1998 13:35:36 +0100
From: "Ragnar Otterstad" <otterstad@inet.uni2.dk>
To: "Old Tube Radios" <boatanchors@theporch.com>
Subject: Give away - old magazines
Message-ID: <199802241241.NAA10190@inet.uni2.dk>

I have a pile of 1960's Popular Electronics which needs a good home or they will go to the garbage bin.

Will give them away to whoever will pay the postage.

73 Rag OZ8RO in Copenhagen

Date: Tue, 24 Feb 1998 04:59:48 -0800
From: cormac@quicktel.com (Cormac Thompson)
To: boatanchors@theporch.com
Subject: NEED: Johnson Invader Meter
Message-ID: <34F2C444.2295@quicktel.com>

Hello Gang:

Does anyone have a Viking Invader 200 parts rig out there??

I need a meter for the Invader, Johnson part number 22.1689 as shown on the meter front.

Thanks for the assistance.

73 Mac, W7JHS
cormac@quicktel.com
1-888-786-3099

Date: Tue, 24 Feb 1998 08:37:00 -0500
From: "Owens, Clarence" <owensc@nebeng.otis.com>
To: Boatanchors Post <boatanchors@theporch.com>
Subject: Need 2-01C or EA53 tube
Message-ID: <0EOVXPLK900D6W@mailman.otis.com>

Hi Gang,

I just finished fixing the probe leads for my HP 410B VTVM and tried it for the first time last night. Decided to monitor the filament voltage on the probe diode as I brought the AC line voltage up slowly over 15 or 20 min, and it was fine. Turned off the variable transformer and plugged the 410B into the plug strip and the fil. voltage was only a couple tenths of a volt. Thought my wiring job was faulty (ME make a mistake?), but alas, the fix was to remove the probe diode... Its filament is now a nice short circuit. So I need either an EA53 or 2-01C probe diode. Yes, I looked at the AES catalog. That's more than I paid for the 410B.

So, if someone has a good one, new or used, for something more reasonable, please let me know. For that matter, I'd consider buying a whole probe assembly.

Thanks and 73,

Clare Owens N2RJB
owensc@nebeng.otis.com

Date: Tue, 24 Feb 1998 12:14:37 -0500
From: Al Klase <skywaves@bw.webex.net>

To: Boatanchors <boatanchors@theporch.com>
Subject: BA Haunts in San Jose??
Message-ID: <34F2FFFD.1E2B6653@bw.webex.net>

Anchorites,

I find myself in Silicon Valley for a couple of days. Is there anything here i should check out?

73, Al

--

Al Klase - N3FRQ
skywaves@bw.webex.net
Flemington, NJ 08822
Web Page: <http://www.webex.net/~skywaves/home.htm>

Date: Tue, 24 Feb 1998 18:33:48 +0100
From: "Sindre Torp" <sindtorp@online.no>
To: <boatanchors@theporch.com>
Subject: Thanks for help with Collins filter
Message-ID: <199802241735.SAA29864@online.no>

Thanks to all who helped me to find out what kind of Collins filter I have received recently. It was of great help to me!
This list is fantastic.

Best 73,

Sindre Torp, LA60P
Norway

Date: Tue, 24 Feb 1998 09:44:39 -0800
From: Jim Hill <jshillw6ivw@earthlink.net>
To: boatanchors@theporch.com
Subject: Reflex Receiver Data
Message-ID: <3.0.5.32.19980224094439.008adb20@earthlink.net>

A few weeks ago, someone asked for reflex receiver data. I have about 5 to 6 QST articles, written in the 20's, that cover this topic in considerable detail. I can't find the appropriate message, but if you are still interested, contact me. I would appreciate 5 cents a page plus postage,

since I'm retired and must use the local repro services.
I would estimate about 50 to 100 pages.

Sorry about the delay, but I have been out of town, and also
had difficulty finding the articles. While searching, I found
some new ones, so it isn't all bad.

73's Jim

Date: Tue, 24 Feb 1998 13:07:31 -0500
From: BEN NOCK <G4BXD@compuserve.com>
To: Multiple recipients of 1 <boatanchors@sco.theporch.com>
Subject: Drake R4C filters
Message-ID: <199802241307_MC2-3486-92D6@compuserve.com>

Thanks to all those who sent me the info on the filters
for this set. As most stated a \$100 price tag I think I'll forget it, =
the rx didn't cost that much so its not worth while.

I'll try and build something myself.
cheers, Ben G4BXD.

Date: Tue, 24 Feb 1998 13:07:29 -0500
From: BEN NOCK <G4BXD@compuserve.com>
To: Multiple recipients of 1 <boatanchors@sco.theporch.com>
Subject: AR88 mobile !! psu
Message-ID: <199802241308_MC2-3486-92D0@compuserve.com>

I picked up a small psu unit:

RCA UNIT PSU MI-22215

I think this is the 6v pack for the AR88 ?

Can anyone confirm.

Ben G4BXD.

Date: Tue, 24 Feb 1998 13:27:51 EST
From: ARONGV@aol.com

To: Baswaplist@foothill.net, boatanchors@theporch.com, CW@qth.net
Subject: KC Swap Meet Alert
Message-ID: <14151037.34f3112b@aol.com>

Hi Gang:

The Ararat Amateur Radio Shrine Club will put on its Hambash '98 March 14 at the Ararat Temple on Saturday March 14 in Kansas City MO. It will run from 8 AM to 2 PM.

This meet is sanctioned by the ARRL, and will include a presentation by "High Tech Heil," (K9EID) an author of textbooks and handbooks and a pioneer of VHF SSB.

Advance tickets to the swap area and the presentations are three for \$5 in advance. At the door they'll cost \$3 each.

For table reservation information, you can contact Steve Dowdy, WJ0I, at 816-941-3392; Fax: 816-941-3208; E-Mail: sdowdy@qni.com. 8-foot tables are \$15 each, and they come with three admission tickets, but tables must be reserved in advance. Limited electrical outlets are available, but won't be available if you wait much longer.

It's a great place to meet boatanchor and swaplist hams, as many of us will be wearing baseball caps with our call signs and have QSL cards on our tables. Stop by my table and pick up a copy of Reed's ham radio paint matching catalog. I don't work for him, but I highly recommend his paints, and his primer can't be beat.

And, if you've got a project rig to donate to the rig of the month "Rigs For Postage," project, tuck it under your arm and I'll make it available to the Boatanchor@theporch.com list and make sure you get the credit!

As a footnote, hope you guys have been taking note of the great DX openings on 40 CW. Last night I worked a DU/ VK/ two ZKs/ZL7/ PJ9/and all with my little Swan 350 into a Windom at 30 feet succeeding in the pileups.

73s de Ron W00IZ Shawnee, Kansas ... _._

Date: Tue, 24 Feb 1998 13:29:24 -0500
From: RSOLOMON@systems.TEXTRON.COM
To: " - (052)boatanchors(a)sco.theporch.com"
<boatanchors@sco.theporch.com>
Subject: WTD: TEK 454A Manual
Message-ID: <00341000025200530000002L032*@MHS>

Looking for a manual for a Tektronix 454A Oscilloscope. Anyone have one ??

I have manuals for the Tek 1L20 and 1L40 I would consider trading.
73, Dick, W1KSZ

Date: Tue, 24 Feb 1998 13:33:18 +0000
From: "Lawrence R. Ware" <lrware@pipeline.com>
To: boatanchors@sco.theporch.com
Subject: Need some National stuff
Message-ID: <3.0.5.32.19980224133318.00800910@pop.pipeline.com>

Hi Gents! I could really use any/all of the following if you have it:

National NC-98 speaker emblem, or whole speaker W/emblem.
National HRO-500 speaker.
Color poster of HRO-500. (copy OK)

I'm trying to work a multi party round robin trade for some National NC-100 stuff. Any of the above would help me cinch the deal.

Another item that would help is a photocopy of the National SW-3 manual. Not the QST or Riders stuff, but the real National manual.

Will offer "bonus points" in next giveaway, HP 200CD (works good), HP 400D (also works good), copies of any National or HP manual I have, and even pictures of dead presidents in green as required.

-Larry

Larry Ware
Admirer, Collector, Restorer of National Radio Company
receivers and other artifacts.
Orlando, Florida
lrware@pipeline.com

Date: Tue, 24 Feb 1998 13:45:00 -0500 (EST)
From: JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
To: boatanchors@theporch.com
Subject: BOUNCEY DRAKE METERS
Message-ID: <9802241345.aa27403@pcusa01.ecunet.org>

To: boatanchors@theporch.com

I have several Drake R-4* receivers. One of 'em has a very bouncy S-meter. Level indications on it seem ok (so meter sensitivity seems alright).

I have played with some meters (high quality, the moving coil type, not the iron vane cheapos) that required an external shunt to damp their movements.

One case I recall a 50 uA meter that needed 27K of shunt to critically damp it. Critical damping in a system (mechanical in this case) means in response to a step input, the needle reaches equilibrium (settles) as quickly as possible with *no* overshoot. It was interesting to play around with under- (higher R shunt) and over-damped (lower R) conditions too.

The shunt also corrected its indicated sensitivity, i.e. it indicated high without the shunt.

Well, then I don't know what gives with the Drake meter! Check the value of the resistors in parallel with the meter; make sure the zero pot is not intermittent.

-John Sehring (written on Tue, Feb 24, 1998 at Custer, SD) UCC WB2EQG

Date: Tue, 24 Feb 1998 12:24:39 -0800
From: David Ross <ross@hypertools.com>
To: boatanchors@theporch.com
Subject: WTB: canvas accessory bag for PRC-41
Message-ID: <3.0.5.32.19980224122439.007c28a0@mail.willapabay.org>

BAfolks -

I'm looking for the canvas accessory bag for a PRC-41. The piece is actually two bags, one for the handset and another for the antenna - both bags are tied together with two web straps of about 36" length.

The manual doesn't list a BG- or a CY- number for the bag but the Collins P/N is 021-0253-00.

Anybody have an extra one of these?

thanks & 73
Dave Ross KA6EPI ross@hypertools.com

Date: Tue, 24 Feb 1998 12:33:26 -0800 (PST)

From: Dick Dillman <ddillman@igc.apc.org>
To: eb5agv@ctv.es, Old Tube Radios <boatanchors@theporch.com>
Subject: Re: HELP: RACAL RA-78 set
Message-ID: <2.2.16.19980224123208.4647e5f8@pop.igc.org>

At 09:50 AM 2/24/98 +0100, JOSE V.GAVILA (EB5AGV/EC5AAU) wrote:

>After the cheap RA-17 offering (thanks to all of you. I got a very nice
>feedback!), yesterday I received another offer of Racal gear, described by
>the seller as:

>

>"RA78 freq. measuring rx (RA-17L, SA-77 comparator, RA-98A,ISB, RA-63H,SSB)"

>I think the Racal bug has bitten me :-)!

Yes, Jose, I agree that you have been bitten. Thus you must, if you have not already done so, immediately purchase a copy of Rinus Jansen's "The RACAL Handbook" published by GC Arnold Partners, 9 Wetherby Close, Broadstone, Dorset BH18 8JB, England. In it you will see, in addition to the accessories you mentioned, a picture and description of the RA.78 Frequency Measuring Receiver on page 25. According to the Handbook the RA.78 came in several configurations. The RA.78G (European) and H (American) versions consisted of the RA.17 receiver only whilst (sorry) the RA.78J (European) and K (American) versions also had the RA.137 LF converter. Apparently they were all additionally equipped with the SA-77 comparator (used to stabilize the RA.17 during frequency measurement and which, I think, had a cool oscilloscope display), SA.535C digital frequency readout (using, it appears, Nixie tubes). The RA.98A and RA.63H are not mentioned as part of the RA.78 but are shown in other parts of the Handbook and are totally cool.

Operation was as follows:

"The RA.17 was tuned as normal to the frequency of the station whose frequency was to be measured. The kHz VFO of the RA.17 was tuned so the Lissajous pattern on the CRT of the SA.77 was steady, and the output of the last IF of the RA.17 was exactly 100kHz. The SA.535C then measured the frequency of the 2nd VFO which displays exact receiving frequency to an accuracy of +/- 2Hz. To provide even better accuracy, an MA.259 frequency standard could be used to achieve an accuracy better than 1Hz"

And now, Jose, here's the kicker:

"Again, it is a station which is seldom to be found, complete, in the surplus trade."

If that's not enough to get you to purchase the unit, well... I just don't know what to say.

By the way, GC Arnold Partners are the publishers of Radio Bygones, a very worthwhile publication that had a recent series on the RA.17.

Regards,

Dick

Dick Dillman
<ddillman@igc.apc.org>
WPE2VT W6AWO
Collector Of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

Date: Tue, 24 Feb 1998 21:24:36 -0500
From: "Jack C. Shutt" <n9gt@fortwayne.infi.net>
To: boatanchors@theporch.com
Cc: n9gt@fortwayne.infi.net
Subject: Philips radios service info
Message-ID: <34F380E4.EA7@fortwayne.infi.net>

Hello tube fans:

Does anyone have information or know of a source for service info/schematics for 40's vintage Philips radios? I am in need of some info for a radio that I wish to restore. I am also interested in sources for tubes and parts for European manufactured radios.

73, Jack, N9GT

Date: Tue, 24 Feb 1998 21:29:51 -0500
From: "Jack C. Shutt" <n9gt@fortwayne.infi.net>
To: boatanchors@theporch.com
Cc: n9gt@fortwayne.infi.net
Subject: NEED METERS
Message-ID: <34F3821F.379F@fortwayne.infi.net>

Hello anchorites:

I'm still looking for a couple of Simpson 2 3/8" panel meters:

1- Model 127 0-10 mA DC

1- Model 157 0-10 VAC

Can anyone help, or point me toward a source?

73, Jack, N9GT

Date: Tue, 24 Feb 1998 13:32:58 -0800 (PST)
From: Ken Gordon <keng@uidaho.edu>
To: boatanchors@sco.theporch.com
Subject: RA-17, etc.
Message-ID: <Pine.BSF.3.95.980224133144.10987A-100000@piobaire.mines.uidaho.edu>

I am sure I am not alone amongst the BA Brethren who wonder WHERE IN HECK
Jose is getting this stuff???!!!!????!!!!???

Come on, Jose. Tell us.

Ken W7EKB

Date: Tue, 24 Feb 1998 07:18:08 -0800
From: "H. David Meitzen" <dmeitzen@kwom.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Looking for Collins Equip. taken from Home
Message-ID: <34F2E4AF.3D2CD7CD@kwom.com>

I sent 8 Collins Cabinets and 312B-5, 3 X 312B-4, 312B-2 and
2X 516F-3 to an associate to restore the cabinets to new. They were
cleaned up and painted.
The cabinets were completed and returned UPS. UPS left them at my door
in
four boxes. The Purple Hearts Charity Group was picking up in my
neighborhood
and the driver got the wrong address. The goods were delivered to their
store
in Chicago area and immediately sold. If anyone hears any stories please
call me at 630 790 8436
or Purple Hearts at 708 396 8990. There is a reward offered for
information.
Regards
Dave AA9TT

Date: Tue, 24 Feb 1998 23:04:28 +0100
From: "JOSE V. GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>
To: "Boatanchors List" <boatanchors@sco.theporch.com>
Subject: Racal RA-17 & RA-78
Message-ID: <3.0.1.32.19980224230428.006a1600@pop.ctv.es>

Hi gang,

My Racal hunting adventure continues...

Well, the first Racal RA-17 (the one 'bargain' priced at \$66) is really a RA-17L :-). So the deal is still better than I expected!. And read what I have just got from the seller:

...
>The radio was in service with the British army until 1985 and has
>been very well maintained. It was had a complete overhaul in 1979 at
>an army workshop, it still has the stickers to prove it. As I work
>for the army I checked into its history and found that it spent its
>final years as a training aid where I work with the Royal Signals.
>
>It does not require a rectifier tube as a diode version has been installed.
>
>I have photocopied a complete repair and modification manual for you
>with circuit diagrams and everything that you will want.
...

Doesn't all of this sound very nice, or I'm getting mad ;-)?.

So, as lots of you suggested (thanks for the feedback, guys!), I'll undoubtedly buy it.

About the RA-78 set, Dick Dillman's message about it is also very promising. Of course, that set will be lots more expensive than the 'bargain' one. I have got a message from the seller and he says it is a 'professional measurement set'. This sure means lots of \$\$\$:-(!. I'll probably pass on this set, as my BA account is not too healthy. So, please, if any of you is seriously interested, let me know. I'll get soon a picture and a price for it and will be glad to pass it to any of you interested. One big trouble for you is that the set is in Portugal, so think about the shipping cost...

Well, hope not to bore you with all of this 'Racal fever', but I'm very excited about this :-).

Best regards.

JOSE

73 EB5AGV / EC5AAU
JOSE V. GAVILA
Ausias March 46, 15
46910 Benetusser - VALENCIA
SPAIN

<http://www.geocities.com/SiliconValley/6992/>
e-mail: eb5agv@ctv.es & eb5agv@amsat.org

Date: Tue, 24 Feb 1998 19:14:04 CST
From: jackiv@juno.com (John M Iverson)
To: dmeitzen@kwom.com
Cc: boatanchors@theporch.com
Subject: Re: Looking for Collins Equip. taken from Home
Message-ID: <19980224.191531.3470.0.jackiv@juno.com>

as the purple hearts where they got that name??? picked up
material addressed to you and not opened, they may be in a situation of
simple theft .. look at it in that way.. and persure it to the end.

jak
Jack Iverson K0EWU jackiv@juno.com

On Tue, 24 Feb 1998 07:18:08 -0800 "H. David Meitzen" <dmeitzen@kwom.com>
writes:

>I sent 8 Collins Cabinets and 312B-5, 3 X 312B-4, 312B-2 and
>2X 516F-3 to an associate to restore the cabinets to new. They were
>cleaned up and painted.
>The cabinets were completed and returned UPS. UPS left them at my door
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>Regards
>Dave AA9TT
>
>
>

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Tue, 24 Feb 1998 23:16:08 +0100
From: "JOSE V. GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>
To: keng@uidaho.edu
Cc: "Boatanchors List" <boatanchors@sco.theporch.com>
Subject: Re: RA-17, etc.
Message-ID: <3.0.1.32.19980224231608.006a64bc@pop.ctv.es>

Hi Ken & the BA gang,

>I am sure I am not alone amongst the BA Brethren who wonder WHERE IN HECK
>Jose is getting this stuff????!!!!????!!!!??
>
>Come on, Jose. Tell us.

No secret at all!. This time, I only put a message in the
'uk.radio.amateur' Newsgroup last 17th february, asking for a Racal RA-17
(look it at DejaNews)... Simple but efective ;-)!.

Best regards.

JOSE

73 EB5AGV / EC5AAU
JOSE V. GAVILA
Ausias March 46, 15
46910 Benetusser - VALENCIA
SPAIN

<http://www.geocities.com/SiliconValley/6992/>
e-mail: eb5agv@ctv.es & eb5agv@amsat.org

Date: Tue, 24 Feb 1998 15:22:28 -0700

From: Dexter Francis <cwest@xmission.com>
To: boatanchors@theporch.com
Subject: Sweep Tube Cross Reference
Message-ID: <34F34824.652F@xmission.com>

Greetings all-

I just posted a Horizontal Deflection Amplifier Tube Cross Reference on my Web Page. (URL Below) It is a compilation of the HDA tube data for the basing (pin assignments) and plate power dissipation for over two dozen types, grouped by base type (8, 9 and 12 pin).

Hopefully you will find this useful for your transmitters, projects and such.

The 12 Volt types will follow.

-df

Need to Buy or Sell Tubes, Parts or BA Gear?
Visit our Web site at <http://www.xmission.com/~cwest/>
e-mail to: tubes@usa.net -or- cwest@xmission.com
P.O. Box 22443, Salt Lake City, Utah 84122

Date: Tue, 24 Feb 1998 14:39:00 -0800 (PST)
From: Stanley Wilson <microres@crl.com>
To: BEN NOCK <G4BXD@compuserve.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Drake R4C filters
Message-ID: <Pine.SUN.3.91.980224143728.7656A-100000@crl10.crl.com>

A R4C is worth a lot more than \$100. I would not sell mine for 5 times that amount. The R4C is still a state of the art receiver even by todays standards.

With sherwood mods and filters they are SUPER... de stan AK0B

Date: Tue, 24 Feb 1998 18:16:04 -0500
From: Richard Post <post@ouvaxa.cats.ohiou.edu>
To: boatanchors@theporch.com
Cc: n9gt@fortwayne.infi.net
Subject: Philips radio service- How I met my wife.

Message-ID: <v03007806b118fb04f81f@[132.235.46.82]>

Jack, N9GT wrote,

>Hello tube fans:

>

>Does anyone have information or know of a source for service
>info/schematics for 40's vintage Philips radios? I am in need
>of some info for a radio that I wish to restore. I am also
>interested in sources for tubes and parts for European
>manufactured radios.

>

>73,

Gerard, in the Netherlands, used to display a schematic of an early Philips on his web page. He has several Philips radios of that vintage.

<http://www.cs.ruu.nl:80/people/gerard/radios/index.html>

These radios are standard superheterodyne sets for the most part, with normal single conversion and IFs at 455 KHz. Not too difficult to fix even without a schematic.

I met my wife-to-be by fixing a Philips. She and I are both Dutch-Americans. Her parents had taken a Philips with them upon emigration to the U.S. (It is common for first-generation transplanted Americans to cluster together. There were a number of Dutch-American farm families in northern New Jersey who had literally "come over on the boat"). The Philips had a loud frying-noise problem and the radio-TV servicemen in the area balked at servicing the set. Small wonder, it had the Philips 8 pin miniature tubes. They have the same shape and size as our 7 pin tubes but have an eighth pin where the 7 pin has a space. There is a small dimple on the tube and a guide on the socket to correctly place the tube in its socket.

It became known in the Dutch-American community that a skinny teenager named Post could fix radios. Since no one else would touch the Philips, no harm in letting him experiment.

Using a home-brew signal tracer, I found a bad capacitor and replaced it to solve the problem. I had just received my driver's license and drove to their farm to return the set. Their skinny 14 year old daughter apparently took a liking to this radio fixer. I ignored her until a few years later when I noticed how much prettier she had become. To shorten the story, we've been married 28 years. My in-laws still have the radio and, yes, it still works. I had to fix it again later. Fixed a bad tube by loosely mounting a 7-pin tube socket over the 8 pin socket and replacing the tube with a functional-equivalent American tube. Just ran the wires right

through the holes in the 8 pin socket holes and tack-soldered to the existing connections. Voltage readings and circuit components provided the original tube elements. Such a reversible fix retains the original chassis.

Last year, I came across a radio from New Zealand that was of very similar vintage with similar strange tubes but was designed only for 230 volts. I took a transformer with dual 115 primaries, wired them in series, fed one of the primaries and took the 230 volts off both in autotransformer fashion. (Did not use the secondaries.) These old radios are decent performers on BC and world band shortwave.

Rich

=====
mailto:rpost1@ohiou.edu

Boatanchpor Pix website - KB8TAD
<http://ouvaxa.cats.ohiou.edu/~post/PIX/BA.html>

visit the Museum of Radio and Technology website
<http://ouvaxa.cats.ohiou.edu/~post/MRT/>
=====

Date: Tue, 24 Feb 1998 17:55:59 -0500
From: dave metz <metzd@cfw.com>
To: boatanchors@theporch.com
Subject: Chasing noise-R390A--a question
Message-ID: <2.2.32.19980224225559.00fc5f90@milo.cfw.com>

Maybe this is too basic of a question but here goes. I am proceeding along on this St Julians creek R390A restoration and have some noise originating before the IF section with no antenna connected. It sounds like an electrical storm. Because of a note in one of the hollow state newsletters, I feel it is most likely a bad postage stamp mica. The question is how to zero in on the problem. Would it be best to ground the grid seeing where one kills it, or would it be faster to observe input and output using a scope? Or, is there another better technique? Any advice would be appreciated as there is one heck of lot of micas in these units between the antenna and the IF deck! In advance, thanks for any insight.

73's
dave

Date: Tue, 24 Feb 1998 23:05:38 +2400
From: Bill Jarvis <B.H.Jarvis@hw.ac.uk>
To: n9gt <n9gt@fortwayne.infi.net>
Cc: boatanchors <boatanchors@theporch.com>
Subject: Re: Philips radios service info
Message-ID: <199802242305.XAA04721@punt1.hw.ac.uk>

On 1998-02-24 n9gt@fortwayne.infi.net said:
n9>X-Cc: n9gt@fortwayne.infi.net
n9>X-Mailer: Mozilla 3.0 (Win16; U)
n9>X-Listprocessor-Version: 8.1 -- ListProcessor(tm) by CREN
n9>Status:
n9>Hello tube fans:
n9>Does anyone have information or know of a source for service
n9>info/schematics for 40's vintage Philips radios? I am in need
n9>of some info for a radio that I wish to restore. I am also
n9>interested in sources for tubes and parts for European
n9>manufactured radios.
n9>73, Jack, N9GT

Yes - tudor.gwilliam-rees@virgin.net (trader).

Bill
GM8APX, qthr=No 6, EH4 6JY==No Rectangulars=Cave Felem==Ikke Hawkering

Hannibal, cum victoria posset uti frui maluit

Net-Tamer V 1.10 - Registered

Date: Tue, 24 Feb 1998 18:37:15 -0600
From: "Allan D. Fritsche" <fritsche@email.msn.com>
To: <boatanchors@theporch.com>
Subject: BA Alignment Instructions
Message-ID: <096682937001928UPIMSSMTPUSR02@email.msn.com>

Hello Gang, got a question that, I should know, but don't...
I have noticed that following the alignment of the HQ-170, SX-101 and now
my SB-101(Worth at least 30 dollars) That all the manuals call for the set
to be aligned in the LSB mode... (Including the IF's). I guess I just
don't

understand something here... when you got great selectivity, shouldn't you align to that and peek as they say... Does it have something to do with sweep's or what..... Color me dumb or just curious...

Your Friend Al
fritsche@msn.com
KD5CML

Date: Tue, 24 Feb 1998 18:23:43 -0800
From: anthony@pacbell.net
To: "Richard L. Duell" <rduell@iac.net>
Cc: The Boat Anchors List <boatanchors@theporch.com>
Subject: re: Military Crystal Set
Message-ID: <34F380AF.E95321BB@pacbell.net>

This is a multi-part message in MIME format.
-----9D6045B7E277AB2BA0EA0A38
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Richard:
 You said ...in BA Digest 1936

Subject: Military Crystal Set
Date: Sun, 22 Feb 1998 16:45:37 -0500
From: "Richard L. Duell" <rduell@iac.net>
To: boatanchors@theporch.com

I recently picked up a set of 120 crystals in FT-241-A holders. The set starts at channel 270 (27.0 MC) and goes through channel 389 (38.9 MC) in .1 MC increments. They are all nicely lined up in their original box.

Anyone know what they go to? Anyone need them to put a unit back in fighting fettle?

73, Rich - W5VDU

=====

Saw no replies, so

Yes, they were a part of depot stock in support of BC-1335 TX/RX wideband FM units at about 3W output. Heavily used in jeeps and tanks, in place of the SCR 610 (not BC-610) units, for short range armor and artillery support. Very neat design for its time, late WWII and into the Korean conflict.

I taught field radio repair of these buggars in '51-'52. :-) Sorry, I have no meaningful use but others might. Nice to have, though, for experimental work.

Tony W6ANV San Francisco, CA
-----9D6045B7E277AB2BA0EA0A38
Content-Type: text/plain; charset=us-ascii; name="Xtals.txt"
Content-Transfer-Encoding: 7bit
Content-Disposition: inline; filename="Xtals.txt"

Subject: Military Crystal Set
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From: "Richard L. Duell" <rduell@iac.net>
To: boatanchors@theporch.com

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End of BOATANCHORS Digest 1939
